

1/2

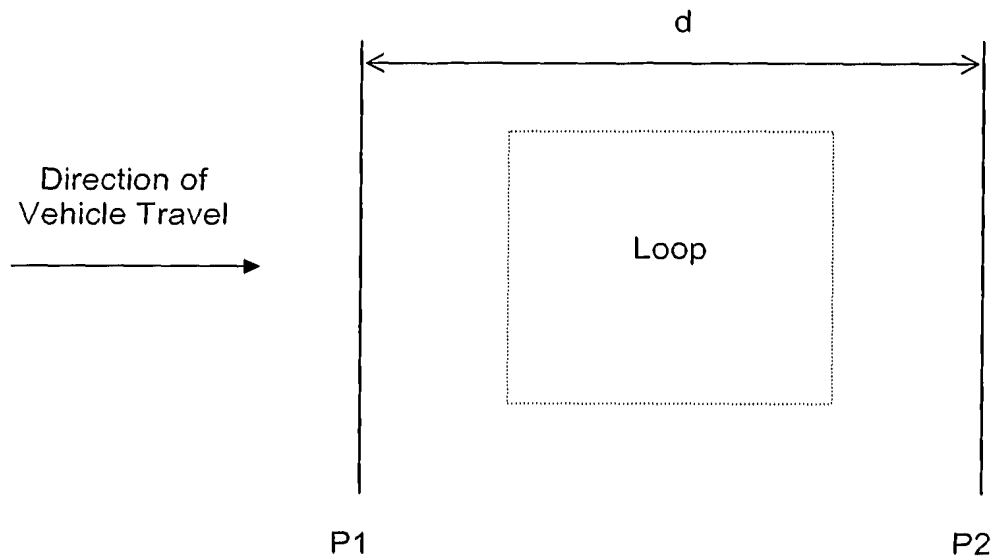


Figure 1

LEGEND

- P1 Piezoelectric Sensor 1
- P2 Piezoelectric Sensor 2
- Loop Inductive Loop
- T1 Time when Front Axle triggers P1
- T2 Time when Front Axle triggers P2
- T3 Time when Rear Axle triggers P1
- T3 Time when Rear Axle triggers P2
- $\Delta t s^1$ Time Interval used to measure the Speed of the Front Axle (T2-T1)
- $\Delta t s^2$ Time Interval used to measure the Speed of the Rear Axle (T4-T3)
- $\Delta t w b$ Time Interval used to measure the Wheel Base (T3-T2)
- $c s^1$ Count Speed 1 is the Number of Interval Counts between T2 and T1 ($\Delta t s^1 * freq$)
- $c s^2$ Count Speed 2 is the Number of Intervals Counts between T4 and T3 ($\Delta t s^2 * freq$)
- $c s w b$ Count Speed Wheel Base is the Number of Interval Counts between T3 and T2 ($\Delta t w b * freq$)
- $freq$ Reference Crystal Frequency
- d Distance separating P1 and P2

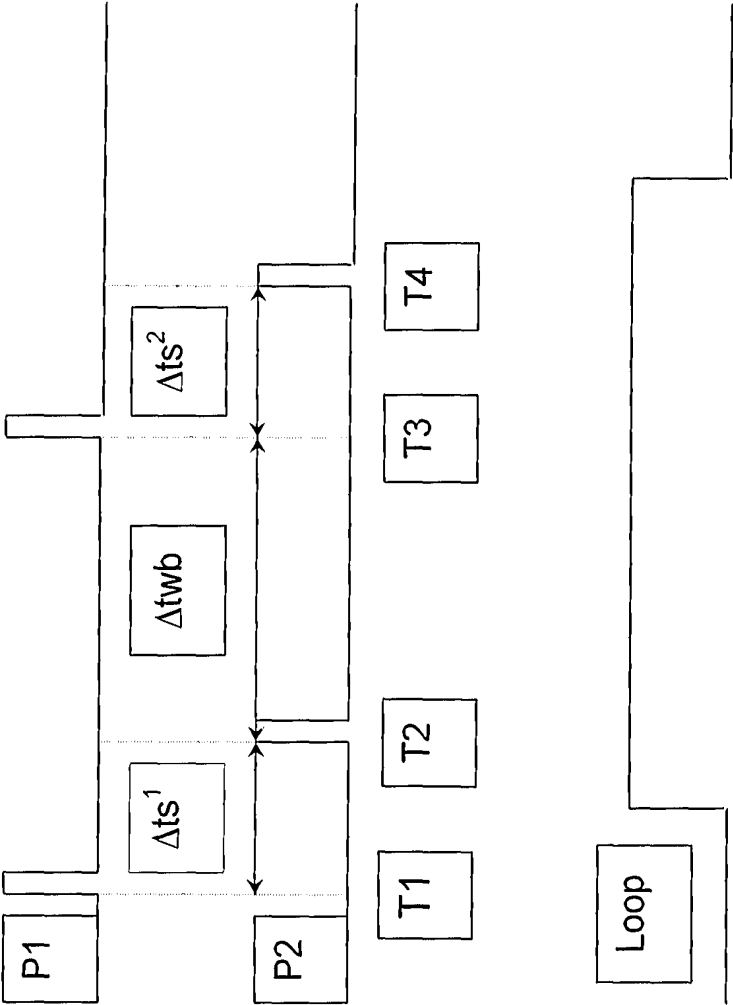


Figure 2